



CLAIM AMENDMENTS

Claim 1 (original): A light source, comprising:

a light head, comprising:

a tubular supporting frame having an interior space and a peripheral surface; and

a luminary unit comprising one or more luminary elements provided on said peripheral surface for emitting light; and

a heat transfer arrangement for dissipating heat generated from said light head, comprising:

a heat sink;

a heat conductor having a sealed chamber which has a first portion positioned in said interior space of the supporting frame and a second portion extended to said heat sink; and

a cooling agent contained in said sealed chamber of said heat conductor, wherein said cooling agent is capable of being vaporized by said heat generated from said luminary unit and condensed by said heat sink so as to enable said heat to flow from said luminary unit towards said heat sink.

Claim 2 (original): A light source, as recited in claim 1, wherein said heat conductor comprises an elongated tubular member concealing said sealed chamber therein to contain said cooling agent within said sealed chamber of said heat conductor.

Claim 3 (original): A light source, as recited in claim 1, wherein said cooling agent is a liquid having a vaporization temperature lower than 100°C and higher than a room temperature.

Claim 4 (original): A light source, as recited in claim 2, wherein said cooling agent is a liquid having a vaporization temperature lower than 100°C and higher than a room temperature.

Claim 5 (original): A light source, as recited in claim 1, wherein said heat sink is positioned above of said supporting frame such that an upper portion of said heat conductor functioned as said second portion thereof to mount with said heat sink while a lower portion of said heat conductor functioned as said first portion thereof to couple with said supporting frame.

Claim 6 (original): A light source, as recited in claim 2, wherein said heat sink is positioned above of said supporting frame such that an upper portion of said heat conductor functioned as said second portion thereof to mount with said heat sink while a lower portion of said heat conductor functioned as said first portion thereof to couple with said supporting frame.

Claim 7 (original): A light source, as recited in claim 4, wherein said heat sink is positioned above of said supporting frame such that an upper portion of said heat conductor functioned as said second portion thereof to mount with said heat sink while a lower portion of said heat conductor functioned as said first portion thereof to couple with said supporting frame.

Claim 8 (original): A light source, as recited in claim 1, wherein said heat conductor further has a plurality of conduction channels spacedly provided on a surrounding wall of said sealed chamber, wherein said conduction channels are extended from said first portion of said heat conductor to said second portion thereof.

Claim 9 (original): A light source, as recited in claim 2, wherein said heat conductor further has a plurality of conduction channels spacedly provided on a surrounding wall of said sealed chamber, wherein said conduction channels are extended from said first portion of said heat conductor to said second portion thereof.

Claim 10 (original): A light source, as recited in claim 4, wherein said heat conductor further has a plurality of conduction channels spacedly provided on a surrounding wall of said sealed chamber, wherein said conduction channels are extended from said first portion of said heat conductor to said second portion thereof.

Claim 11 (original): A light source, as recited in claim 7, wherein said heat conductor further has a plurality of conduction channels spacedly provided on a surrounding wall of said sealed chamber, wherein said conduction channels are extended from said first portion of said heat conductor to said second portion thereof.

Claim 12 (original): A light source, as recited in claim 1, further comprising an electric adapter coupled with said light head and electrically connected to said luminary unit for connection with a conventional light bulb connector for electrically connecting with said power source via said light bulb connector.

Claim 13 (original): A light source, as recited in claim 4, further comprising an electric adapter coupled with said light head and electrically connected to said luminary unit for connection with a conventional light bulb connector for electrically connecting with said power source via said light bulb connector.

Claim 14 (original): A light source, as recited in claim 7, further comprising an electric adapter coupled with said light head and electrically connected to said luminary unit for connection with a conventional light bulb connector for electrically connecting with said power source via said light bulb connector.

Claim 15 (original): A light source, as recited in claim 11, further comprising an electric adapter coupled with said light head and electrically connected to said luminary unit for connection with a conventional light bulb connector for electrically connecting with said power source via said light bulb connector.

Claim 16 (original): A light source, as recited in claim 1, wherein said supporting frame integrally constructed as said heat conductor that said supporting frame is made as an elongated tubular member to form said interior space as said sealed chamber so as to contain said cooling agent within said interior space of said supporting frame.

Claim 17 (original): A light source, as recited in claim 16, wherein an upper portion of said supporting frame functioned as said second portion of said heat conductor to mount with said heat sink while a lower portion of said supporting frame functioned as said first portion of said heat conductor, wherein said luminary unit is

provided at said lower portion of said supporting frame to communicate with said cooling agent within said sealed chamber.

Claim 18 (original): A light source, as recited in claim 17, wherein said cooling agent is a liquid having a vaporization temperature lower than 100°C and higher than a room temperature.

Claim 19 (original): A light source, as recited in claim 17, wherein said heat conductor further has a plurality of conduction channels spacedly provided on a surrounding wall of said sealed chamber, wherein said conduction channels are extended from said first portion of said heat conductor to said second portion thereof.

Claim 20 (original): A light source, as recited in claim 18, wherein said heat conductor further has a plurality of conduction channels spacedly provided on a surrounding wall of said sealed chamber, wherein said conduction channels are extended from said first portion of said heat conductor to said second portion thereof.

Claim 21 (original): A light source, as recited in claim 16, further comprising an electric adapter coupled with said light head and electrically connected to said luminary unit for connection with a conventional light bulb connector for electrically connecting with said power source via said light bulb connector.

Claim 22 (original): A light source, as recited in claim 20, further comprising an electric adapter coupled with said light head and electrically connected to said luminary unit for connection with a conventional light bulb connector for electrically connecting with said power source via said light bulb connector.

Claims 23-33 (cancelled).

Claim 34 (new): A light source, comprising:

one or more light heads for illumination; and

a heat transfer arrangement for dissipating heat generated from said light heads, comprising:

a heat sink positioning apart from said light heads;

a heat conductor having a sealed chamber which has one or more first portions extended light heads respectively, a second portion extended to said heat sink and a plurality of conduction channels spacedly provided on a surrounding wall of the sealed chamber and extended from said first portions to said second portion of said heat conductor; and

a cooling agent contained in said sealed chamber of said heat conductor for flowing between said heat sink and said light heads therethrough, wherein said cooling agent is capable of being vaporized by heat generated from said light heads and condensed by said heat sink so as to enable said heat to flow from said light heads towards said heat sink.

Claim 35 (new): A light source, comprising:

one or more light heads for illumination; and

a heat transfer arrangement for dissipating heat generated from said light heads, comprising:

a heat sink positioning apart from said light heads;

a heat conductor comprising an elongated tubular member concealing a sealed chamber therein, wherein said sealed chamber has one or more first portions extended light heads respectively, a second portion extended to said heat sink and a plurality of conduction channels spacedly provided on a surrounding wall of the sealed chamber and extended from said first portions to said second portion of said heat conductor; and

a cooling agent contained in said sealed chamber of said heat conductor for flowing between said heat sink and said light heads therethrough, wherein said cooling agent is capable of being vaporized by heat generated from said light heads and condensed by said heat sink so as to enable said heat to flow from said light heads towards said heat sink.

Claim 36 (new): A light source, as recited in claim 35, wherein each of said light heads comprises a tubular supporting frame having a peripheral surface and a luminary unit comprising one or more luminary elements provided on said peripheral surface connected to a power source for emitting light.

Claim 37 (new): A light source, comprising:

one or more light heads for illumination; and

a heat transfer arrangement for dissipating heat generated from said light heads, comprising:

a heat sink positioning apart from said light heads;

a heat conductor comprising an elongated tubular member concealing a sealed chamber therein, wherein said sealed chamber has one or more first portions extended light heads respectively, a second portion extended to said heat sink and a plurality of conduction channels spacedly provided on a surrounding wall of the sealed chamber and extended from said first portions to said second portion of said heat conductor; and

a cooling agent contained in said sealed chamber of said heat conductor for flowing between said heat sink and said light heads therethrough, wherein said cooling agent is a liquid having a vaporization temperature lower than 100°C and higher than a room temperature and is capable of being vaporized by heat generated from said light heads and condensed by said heat sink so as to enable said heat to flow from said light heads towards said heat sink.

Claim 38 (new): A light source, as recited in claim 37, wherein each of said light heads comprises a tubular supporting frame having a peripheral surface and a luminary unit comprising one or more luminary elements provided on said peripheral surface connected to a power source for emitting light.

Claim 39 (new): A light source, comprising:

one or more light heads for illumination, each of said light heads comprises a tubular supporting frame having a peripheral surface and a luminary unit comprising one

or more luminary elements provided on said peripheral surface connected to a power source for emitting light; and

a heat transfer arrangement for dissipating heat generated from said light heads, comprising:

a heat sink positioning apart from said light heads;

a heat conductor having a sealed chamber which has one or more first portions extended light heads respectively and a second portion extended to said heat sink; and

a cooling agent contained in said sealed chamber of said heat conductor, wherein said cooling agent is capable of being vaporized by heat generated from said light heads and condensed by said heat sink so as to enable said heat to flow from said light heads towards said heat sink.

Claim 40 (new): A light source, comprising:

one or more light heads for illumination, each of said light heads comprises a tubular supporting frame having a peripheral surface and a luminary unit comprising one or more luminary elements provided on said peripheral surface connected to a power source for emitting light; and

a heat transfer arrangement for dissipating heat generated from said light heads, comprising:

a heat sink positioning apart from said light heads;

a heat conductor comprising an elongated tubular member concealing a sealed chamber therein, wherein said sealed chamber has one or more first portions extended light heads respectively and a second portion extended to said heat sink; and

a cooling agent contained in said sealed chamber of said heat conductor, wherein said cooling agent is capable of being vaporized by heat generated from said light heads and condensed by said heat sink so as to enable said heat to flow from said light heads towards said heat sink.